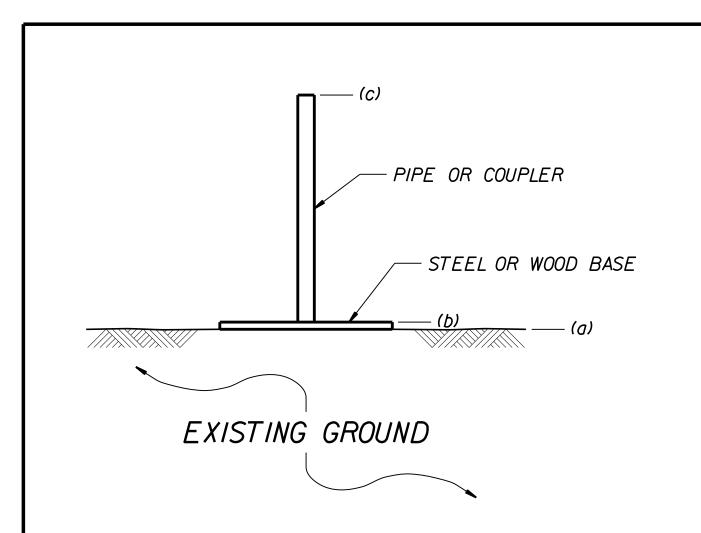
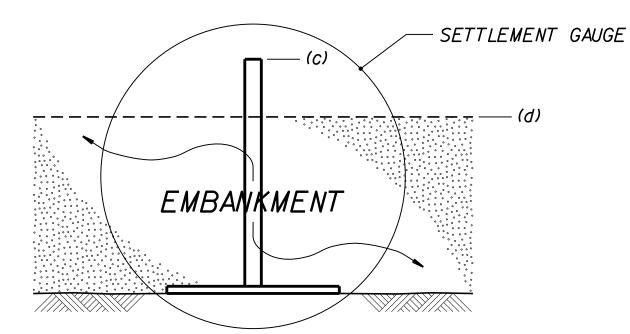
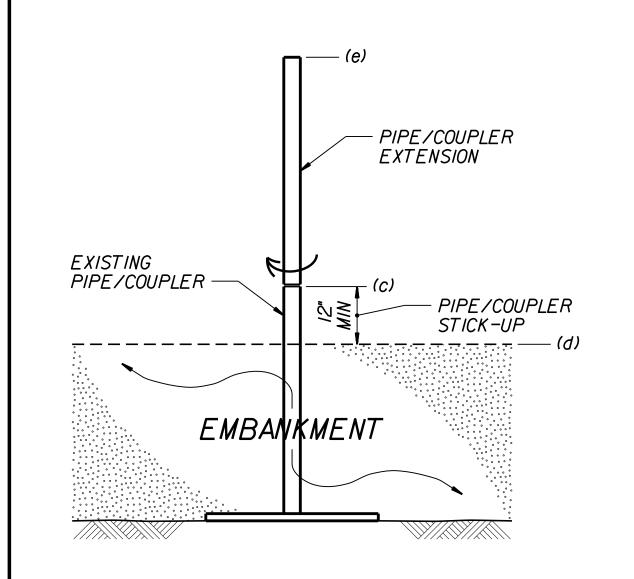
## EMBANKMENT MONITORING SEQUENCE



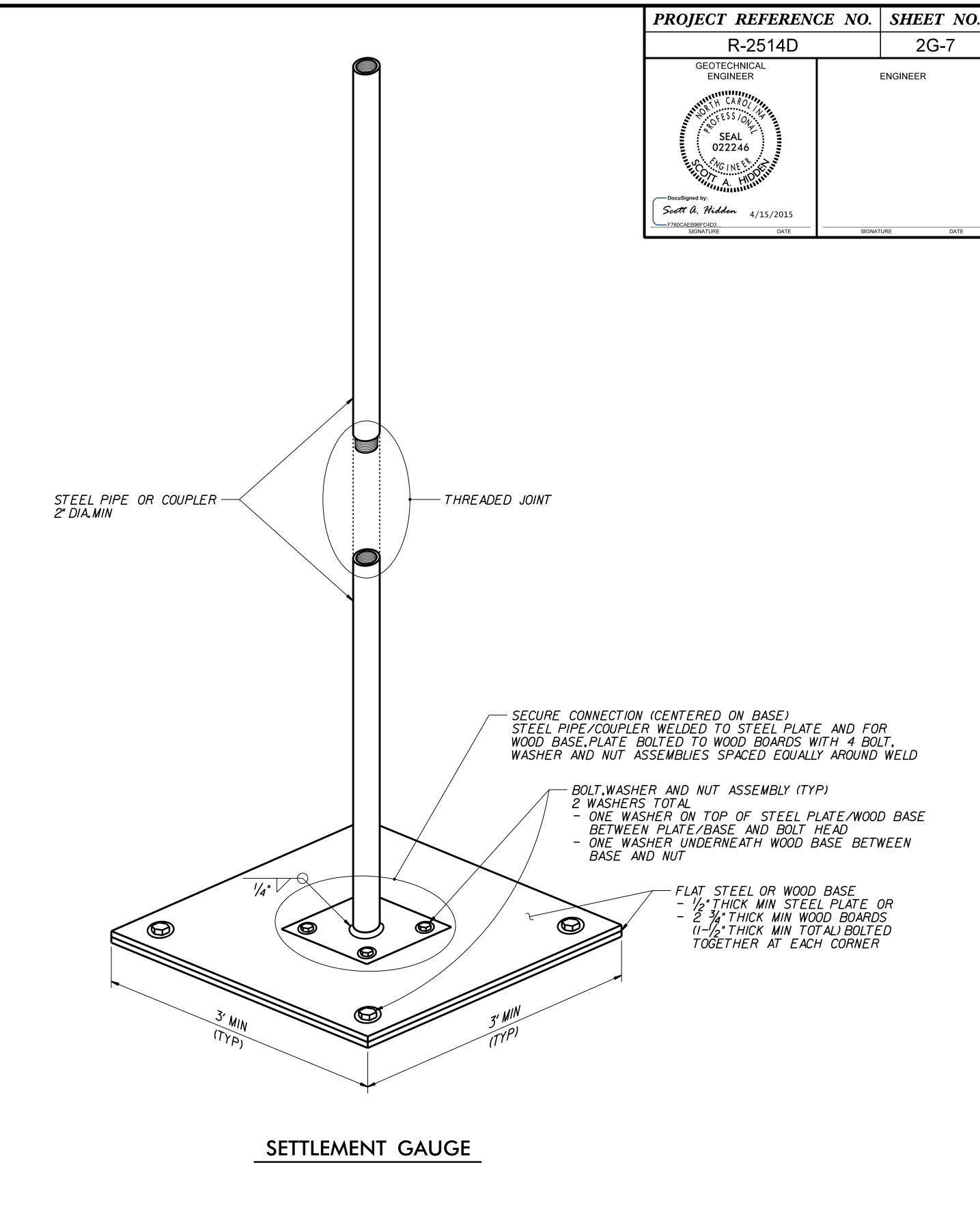
- I. PLACE STEEL/WOOD BASE AT APPROXIMATE GAUGE LOCATIONS SHOWN IN THE PLANS AS DETERMINED BY THE ENGINEER.
- 2. SET BASE ON LEVEL GROUND SO PIPE/COUPLER IS PLUMB.
- 3. BEFORE CONSTRUCTING EMBANKMENT, NOTIFY
  ENGINEER TO SURVEY AND RECORD THE FOLLOWING:
  (a) EXISITING GROUND ELEVATION,
  (b) TOP OF BASE ELEVATION AND
  (c) TOP OF PIPE ELEVATION.



- 4. MAKE SETTLEMENT GAUGE HIGHLY VISIBLE SO GAUGE IS NOT HIT OR DAMAGED.
- 5. PLACE AND COMPACT FILL MATERIAL AROUND SETTLEMENT GAUGE WITHOUT DISTURBING GAUGE.
- 6. NOTIFY ENGINEER WEEKLY TO SURVEY AND RECORD THE FOLLOWING:
  (c) TOP OF PIPE ELEVATION AND
  (d) EMBANKMENT ELEVATION.



- 7. CONNECT PIPE/COUPLER EXTENSION TO EXISTING PIPE/COUPLER AS NEEDED TO MAINTAIN A PIPE/COUPLER STICK-UP OF AT LEAST 12" WHILE MONITORING SETTLEMENT.
- 8. SCREW PIPES/COUPLERS TOGETHER HAND TIGHT AND THEN TIGHTEN 2 TO 3 FULL TURNS WITH A WRENCH.
- 9. NOTIFY ENGINEER TO SURVEY AND RECORD THE FOLLOWING:
  (c) TOP OF PIPE ELEVATION,
  (d) EMBANKMENT ELEVATION AND
  (e) TOP OF EXTENSION ELEVATION.
- IO. RETURN TO STEP 4 WITH NEW TOP OF PIPE ELEVATION EQUAL TO TOP OF EXTENSION ELEVATION.



## NOTES:

- I. SEE ROADWAY SUMMARY SHEETS FOR APPROXIMATE SETTLEMENT GAUGE LOCATIONS.
- 2. FOR STANDARD EMBANKMENT MONITORING, SEE EMBANKMENT SETTLEMENT GAUGES PROVISION.
- 3. INSTALL SETTLEMENT GAUGES AFTER CLEARING AND GRUBBING GAUGE LOCATIONS AND BEFORE CONSTRUCTING EMBANKMENTS WITH EMBANKMENT MONITORING.

## DEPART DEPART DEPART DEPART DEPART DEPART DEPART DEPART

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT STANDARD DETAIL NO. 1804.01

STANDARD EMBANKMENT MONITORING

DATE: 2-19-13